

Amendments to the Claims:

Please cancel claims 1 to 13 as presented in the underlying International Application No. PCT/EP2004/003640.

Please add new claims 14 to 27 as indicated in the listing of claims below.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-13 (canceled).

Claim 14 (new): A hingeless rotor defining an axis of rotation, comprising

a rotor mast;

a torque-transmission element disposed rotationally fixed with respect to the rotor mast;

and

at least one plate-shaped rotor head element having a first group of arms and a second group of arms, the axis of rotation of the rotor passing through the at least one plate-shaped rotor head element, wherein the first group of arms includes a plurality of bending-flexible rotor blade-connection arms that dissipate centrifugal forces, each of which is connectable to a rotor blade, and wherein the second group of arms includes a plurality of bending-flexible rotor mast-connection arms that are free of centrifugal force and connecting the plate-shaped rotor head element to the torque-transmission element.

Claim 15 (new): The rotor as recited in claim 14, wherein the first and second groups of arms are integrally connected portions of the plate-shaped rotor head element.

Claim 16 (new): The rotor as recited in claim 14, wherein the rotor blade-connection arms are disposed offset with respect to the rotor mast-connection arms by an angle α .

Claim 17 (new): The rotor as recited in claim 14, wherein the rotor mast-connection arms lie in

a plane of the rotor blades.

Claim 18 (new): The rotor as recited in claim 14, wherein each of the rotor blade-connection arms has at least one slit and notched arm area angled one of upwards and downwards in a direction of the rotor axis from a plane of the plate, wherein the at least one arm area forms a rotor-mast connection arm and a loop-like horizontal projection of the respective rotor blade-connection arm.

Claim 19 (new): The rotor as recited in claim 18, wherein for each rotor blade-connection arm two rotor mast-connection arms are provided extending above and below the respective rotor blade connection arm in the direction of the rotor axis.

Claim 20 (new): The rotor as recited in claim 14, wherein the rotor blade-connection arms and the rotor mast-connection arms each extend in the same radial directions and in a different plane relative to a plane of the rotor blades.

Claim 21 (new): The rotor as recited in claim 14, wherein the rotor blade-connection arms and the rotor mast-connection arms each extend in different radial directions in different planes relative to the plane of the rotor blades.

Claim 22 (new): The rotor as recited in claim 14, wherein each rotor mast-connection arm has a separation point on an radial outer free end configured to detachably fasten a rotor blade.

Claim 23 (new): The rotor as recited in claim 14, wherein each rotor blade-connection arm is an integrally connected with a rotor blade.

Claim 24 (new): The rotor as recited in claim 14, wherein each of the rotor blade-connection arms is an integral part of a first plate part, and each of the rotor mast connection-arms is an integral part of a second separate plate part, the first and second plate parts being separate from one another and are combined to form the plate-shaped rotor head element.

Claim 25 (new): The rotor as recited in claim 14, wherein the plate-shaped rotor head element includes a central opening, and wherein at least a portion of the rotor mast extends through the central opening connection-free.

Claim 26 (new): A rotary-wing aircraft that includes at least one rotor according to claim 14.

Claim 27 (new): The rotary-wing aircraft as recited in claim 26, wherein the rotary wing aircraft is at least one of a helicopter and a tilt rotor helicopter.